

AOG Rush

Work Order ID 137399

137399

Page 1

Monday, September 28, 2015 11:26:04 AM

Item ID: 647.3704

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: 204,205,212,214 Cable Cutter System, High

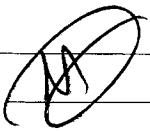
Start Date: 9/28/15 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 9/29/15 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan:  Date: 59.28 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
647.3700	NC3

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.3704

DAS
38
9-89

15-09-29

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

DAS
06
9-89

SEP 28 2015

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

DAS
38
9-89

15-09-29

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

Work Order ID 137399

137399

Page 2

Monday, September 28, 2015 11:26:04 AM

Item ID: 647.3704

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 9/29/15 Req'd Qty: 1.00 *1*

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130							DAS 6 0-89		
Packaging	Memo	0.00						SEP 29 2015	
Packaging	Identify and pack for shipping as per PPP 647.3704 Location: <u>SOP</u>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00						MCS	SEP 29 2015
Quality Control									

Handwritten signature/initials
DAS-29

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due		☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter		FAULT CATEGORY ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence	
				OTHER : _____							

Picklist Print

Monday, September 28, 2015 11:26:11 AM

Page 1

Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM
REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM
PER REV NC3 15.03.18 JLM VERIFIED BY:DD

IPP
IPP REV:C AS

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
601.3082 RIVET		Purchased	No				Each	57.0000		6			DAS 02 9-89
601 3082									**				
<u>Location</u> <u>Loc Qty</u> <u>Loc Code</u>													
					CCK099			57					
					m129702			57		6			
CR3212-4-1 647.3903 Deflector Assembly		Manufactured	No				Each	2.0000		1			DAS 02 9-89
647 3903									**	137400			
<u>Location</u> <u>Loc Qty</u> <u>Loc Code</u>													
					cck024			1					
					130705			1					
					qc			1					
					130707			1					
647.3802 212 Upper Cutter Assy		Manufactured	No			110	Each	20.0000	1	1			DAS 02 9-89
647 3802									**				
<u>Location</u> <u>Loc Qty</u> <u>Loc Code</u>													
					cck030			20					
					124717			12					
					124719			2					
					124722			2					
					124723			2					
					124724			1					
					135081			1		1			

SEP 29 2015

DQA: _____ Date: _____



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QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : _____			

Picklist Print

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Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

647.3804 Manufactured No

647 3804

Lower Cutter Assy High

DAS
38
9-89

110 Each 4.0000 1 1

**

DAS
6

Location

Loc Qty

Loc Code

cck27

4

132975

2

132976

2

647.4410 Manufactured No

647 4410

Rail

DAS
38
9-89

110 Each 27.0000 1 1

**

DAS
8
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK081

27

120755

11

120986

16

647.4010 Manufactured No

647 4010

Wiper Deflector RH

DAS
38
9-89

110 Each 32.0000 1 1

**

DAS
8
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

cck87

32

120628

6

120740

18

m129721

8

647.4011 Manufactured No

647 4011

Wiper Deflector LH

DAS
38
9-89

110 Each 30.0000 1 1

**

DAS
8
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

cck78

30

120629

6

120741

17

m129721

7

SEP 29 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter		☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence	
☐ OTHER : _____											

Picklist Print

Monday, September 28, 2015 11:26:11 AM

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Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

647.4110

DAS
38
9-89

Manufactured No

647 4110

Doubler

110 Each 28.0000 1 1

**

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK080

28

120742

10

120987

18

647.4111

Manufactured No

647 4111

Doubler

110 Each 28.0000 1 1

**

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

cck111

28

120743

16

120967

12

647.4112

Manufactured No

647 4112

Clip

110 Each 14.0000 1 1

**

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK112

14

126770

14

647.4113

Manufactured No

647 4113

Clip

110 Each 14.0000 1 1

**

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK112

14

126771

14

SEP 29 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER :			
Misidentified ☐		Past Due ☐					

Picklist Print

Monday, September 28, 2015 11:26:11 AM

Page 4

Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

647.4114

Manufactured No

110

Each

61.0000

2

2

647 4114

Shim

DAS
38
9-89

**

DAS

6

9-89

DAS

02

9-89

LocationLoc QtyLoc Code

CCK112

61

120635

14

120746

28

120941

19

2

647.4115

Manufactured No

110

Each

46.0000

2

2

647 4115

Shim

DAS
38
9-89

**

DAS

6

9-89

DAS

02

9-89

LocationLoc QtyLoc Code

CCK112

46

120747

31

120949

15

2

647.4116

Manufactured No

110

Each

29.0000

1

1

647 4116

Shim

DAS
38
9-89

**

DAS

6

9-89

DAS

02

9-89

LocationLoc QtyLoc Code

CCK112

29

120748

13

121064

16

1

647.4210

Manufactured No

110

Each

25.0000

1

1

647 4210

Bracket LH

DAS
38
9-89

**

DAS

6

9-89

DAS

02

9-89

LocationLoc QtyLoc Code

CCK112

10

120749

10

CCK123

15

121086

15

1

SEP 29 2015

Monday, September 28, 2015 11:26:11 AM

Shop Packet Print

Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified ☐	☐	Past Due	☐				

Picklist Print

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Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

647.4211

Manufactured No

110

Each

27.0000

1

1

647 4211

Bracket RH

DAS
38
9-89

**

68-6
9
SAG

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK112

12

120750

12

CCK123

15

121134

15

647.4212

Manufactured No

110

Each

12.0000

1

1

647 4212

Plate

DAS
38
9-89

**

68-6
9
SAG

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK112

12

120945

7

m129702

5

647.4311

Manufactured No

110

Each

12.0000

1

1

647 4311

RH Lower Strut

DAS
38
9-89

**

68-6
9
DAS

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK67

12

126398

12

647.4310

Manufactured No

110

Each

31.0000

1

647 4310

LH Lower Strut

DAS
38
9-89

**

SEP 29 2015

DAS
02
9-89

Location

Loc Qty

Loc Code

cck066

31

126395

19

126396

12

68-6
9
DAS

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : _____			

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Page 6

Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

647.4312 Manufactured No

110 Each 12.0000 1 1

647 4312

LH Upper Strut

DAS
38
9-89

**

Location

Loc Qty

Loc Code

CCK67

12

126399

12

110 Each

12.0000

1

1

**

DAS
6
9-89

DAS
02
9-89

647.4313

Manufactured No

647 4313

RH Upper Strut

DAS
38
9-89

**

Location

Loc Qty

Loc Code

cck068

12

126401

12

110 Each

1,949.000

34

34

**

DAS
6
9-89

DAS
02
9-89

NAS1149FN832P

Purchased No

NAS1149FN832P

Washer

DAS
38
9-89

**

Location

Loc Qty

Loc Code

GA

737

125268

737

ST260a

291

125268

291

st268

921

M130388

921

SEP 29 2015

DAS
6
9-89

DAS
02
9-89

34

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____							
Misidentified	☐	Past Due	☐								

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Page 7

Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

110

Each

1,627.000

157

157

NAS1149F0332P

DAS
38
9-89

DAS
6
9-89

DAS
02
9-89

Washer

Location

Loc Qty

Loc Code

GA	180	
122063	180	
ST260a	136	
m128401	6	
m131026	80	
m131697	50	
st268	1311	
123900	7	
m130388	86	
<u>m133077</u>	618	157
m133134	600	

MS27039-1-07

Purchased

No

110

Each

474.0000

12

12

MS27039-1-07

DAS
38
9-89

SEP 29 2015

Screw

Location

Loc Qty

Loc Code

GA	334	
125654	334	
ST286	140	
m127813	132	12
m130388	8	

DAS
6
9-89

DAS
02
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY																																																											
☐ Environment	☐ Design	☐ Doc/Data	☐ Equip/Tooling	☐ Handling/Pre	☐ Material	☐ Internal Transport	☐ Tribal Knowledge	☐ LOA	☐ Substation	☐ Past Expiry Date	☐ Misidentified	☐ No Re-verification	☐ Operator	☐ Offset/Setup	☐ Supplier	☐ Training	☐ Use for Testing	☐ Poor Information	☐ Rushing	☐ Product Improvement	☐ Process Improvement	☐ Manufacturing Process	☐ Past Due	☐ Pressure/Forced	☐ Bending	☐ Centre Not Concentric	☐ Cracks	☐ Crimp/Kink/Ripple/Wave	☐ Cuffs	☐ Crushing	☐ Heat Treat	☐ Wave/Twist in Tube	☐ Marks/Chatter	☐ Temperature/Cure	☐ Set-up	☐ BOM/Route	☐ Broken/Damage/Defect	☐ Inspection Incomplete/Unqualified	☐ Contamination	☐ Countersink	☐ Cut Too Short	☐ Instructions Incomplete/Unclear	☐ Drill Holes	☐ Power Loss/Surge	☐ Folio/Program	☐ Grain	☐ Weld	☐ Wrong Stock Pulled	☐ Out of Sequence	☐ Off-set	☐ Mislabeled	☐ Fit/Function	☐ Misaligned/off center	☐ Positioned Wrong	☐ Outside Dimensions	☐ Over/Under tolerance	☐ Part Incorrect	☐ Part Lost/Missing	☐ Part Moved	☐ Drawing	☐ Finish	☐ Misread	☐ Turning Sequence
																								OTHER :																																							

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Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

429.0000

42

42

MS27039-1-10
SCREW

DAS
38
9-89

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST273A

200

m132677

200

ST285

138

m123522

2

m132640

136

42

MS27039-08-08

Purchased

No

110

Each

119.0000

16

16

MS27039-08-08
Screw

DAS
38
9-89

129541

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CA

8

m130113

8

ST282

111

m130799

111

SEP 29 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				
Description Work Order Deviation				Disposition							
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due		FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter		☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence	
				OTHER :							

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Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15 **DAS**

Start Qty: 1.00

Required Qty: 1.00 **6 8-89**

MS27039-1-09

Purchased

No

110

Each

313.0000

14

14

MS27039-1-09

DAS

Screw

DAS
38
9-89

02

9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST273A

200

125646

200

ST285

43

124859

29

m129541

2

m130388

12

Bill

x2

x1

MS27039-08-11

Purchased

No

110

Each

235.0000

2

2

MS27039-08-11

DAS
6
8-89

DAS

SCREW

DAS
38
9-89

02

9-89

Location

Loc Qty

Loc Code

ST282

235

m130358

115

m133134

120

2

MS24694-S49

Purchased

No

110

Each

234.0000

1

1

MS24694-S49

DAS
6
8-89

Screw

DAS
38
9-89

DAS
02
SAD

Location

Loc Qty

Loc Code

ST289

234

m129499

100

m129702

134

1

SEP 29 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐											

Picklist Print

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Page 10

Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

MS24694-C53

Purchased No

110

Each

184.0000

8

8

MS24694-C53

Screw

DAS
38
9-89

Location

Loc Qty

Loc Code

ST287

184

m129499

32

m129702

152

**

DAS
6
9-89

DAS
02
9-89

601.3073

Purchased No

110

Each

3.0000

1

1

601 3073

Connector

DAS
38
9-89

Location

Loc Qty

Loc Code

CCK099

3

126805

3

**

DAS
6
9-89

DAS
02
9-89

AN3-4A

Purchased No

110

Each

198.0000

3

3

AN3-4A

Bolt

DAS
38
9-89

Location

Loc Qty

Loc Code

ST338a

100

m133234

100

ST350

98

m129682

88

m132317

5

m133064

5

**

DAS
6
9-89

DAS
02
9-89

AN3-11A

Purchased No

110

Each

184.0000

8

8

AN3-11A

Bolt

DAS
38
9-89

Location

Loc Qty

Loc Code

ST338a

184

m132823

84

m133234

100

**

DAS
6
9-89

DAS
02
9-89

SEP 28 2015

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐											

Picklist Print

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Page 11

Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

AN3C10A	Purchased	No	110	Each	22.0000	2	2		
AN3C10A								**	
Bolt									

DAS
38
9-89

DAS
6
9-89

DAS
02
89

Location	Loc Qty	Loc Code
ST349	22	
m128634	21	
m129521	1	

2

CR3212-4-2	Purchased	No	110	Each	19.0000	5	5		
CR3212-4-2								**	
Cherry Rivet									

DAS
38
9-89

DAS
6
9-89

DAS
02
89

Location	Loc Qty	Loc Code
ST320	19	
121090	19	

5

CR3212-4-3	Purchased	No	110	Each	0.0000	17	17		
CR3212-4-3								**	
Cherry Rivet									

DAS
38
9-89

DAS
6
9-89

DAS
02
89

M19017

CR3212-4-4	Purchased	No	110	Each	0.0000	7	7		
CR3212-4-4								**	
CHERRY RIVET									

DAS
38
9-89

DAS
6
9-89

DAS
02
89

M132317

CCR264SS3-04	Purchased	No	110	Each	771.0000	12	12		
CCR264SS3-04								**	
Rivet									

DAS
38
9-89

Location	Loc Qty	Loc Code
CCK004	590	
123785	400	
m129702	190	
ST321	181	
123352	181	

12

DAS
6
9-89

DAS
02
89

SEP 28 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :							
Misidentified	☐	Past Due	☐								

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Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

CCR264SS-3-03

Purchased

No

110

Each

221.0000

16

16

CCR264SS-3-03

DAS

38

9-89

Rivet

**

DAS

6

9-89

DAS

02

9-89

Location

Loc Qty

Loc Code

LG001

123

m128606

123

ST321

98

m128606

98

CR3213-4-2

DAS

38

9-89

Purchased

No

110

Each

481.0000

31

31

CR3213-4-2

Cherry Rivet

**

DAS

6

9-89

DAS

02

9-89

Location

Loc Qty

Loc Code

CCK004

12

m130388

12

ST319

469

m131340

469

CR3213-4-3

Purchased

No

110

Each

495.0000

24

24

CR3213-4-3

DAS

38

9-89

Rivet, Cherry

**

SEP 28 2015

DAS

6

9-89

DAS

02

9-89

Location

Loc Qty

Loc Code

CA

7

123301

7

CCK004

288

123301

116

m129541

100

m130388

72

ST318

200

m131340

200

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Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : _____			
Misidentified	☐	Past Due	☐				

Picklist Print

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Page 13

Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-4

Purchased

No

110

Each

545.0000

16

16

CR3213-4-4

Rivet, Cherry

DAS
38
9-89

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK004

497

126282

462

M128813

35

ST319

48

M130388

48

16

CR3213-4-5

Purchased

No

110

Each

316.0000

28

28

CR3213-4-5

Rivet

DAS
38
9-89

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK004

316

M129913

300

M130388

16

13 1340

CR3213-4-8

Purchased

No

110

Each

156.0000

4

4

CR3213-4-8

Rivet

DAS
38
9-89

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

ST319

156

123785

156

4

MS21042-3

MS21042L3

Purchased

No

110

Each

546.0000

79

79

MS21042-3

Nut / use MS21042L3

DAS
38
9-89

SEP 28 2015

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

ST305

546

M128770

10

M129541

15

M129682

498

M130388

23

79

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Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 14

Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

MS21042-08 MS21042L08 Purchased No

MS21042-08

USE MS21042L08

DAS
38
9-89

110 Each 33.0000 18 18

**

13137

DAS
02
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

MS21047L06

Purchased No

MS21047L 06

Nut Plate

DAS
38
9-89

110 Each 92.0000 6 6

**

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

ST303

92

m131340

92

MS21047L08

Purchased No

MS21047L 08

Nut Plate

DAS
38
9-89

110 Each 57.0000 6 6

**

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

ST303

57

m129702

57

MS21047-3

Purchased No

MS21047-3

Nut Plate

DAS
38
9-89

110 Each 199.0000 4 4

**

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

ST273A

50

m133031

50

ST303

149

m130388

8

m133134

91

m133234

50

SEP 28 2015

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Page 14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER :			
Misidentified ☐	☐	Past Due	☐				

Picklist Print

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Page 15

Work Order ID: 137399

137399

Parent Item: 647.3704

647 3704

Parent Item Name: 204,205,212,214 Cable Cutter System, High

Start Date: 9/28/15

Required Date: 9/29/15

Start Qty: 1.00

Required Qty: 1.00

MS21071L3

Purchased No

110 Each 256.0000 4 4

MS21071L3

ANCHOR NUT

DAS
38
9-89

**

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

ST301

256

114348

2

124291

50

125654

100

m129702

104

601.3083

Manufactured No

110 Each 10.0000 1 1

601 308.3

Adhesive Rubber Seal

DAS
38
9-89

**

DAS
6
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

cck012

10

130723

10

601.1012

600.1012

Purchased No

110 Each 0.0000 1 1

601 1012

Sealant (One 6 oz)

DAS
38
9-89

**

DAS
6
9-89

DAS
02
9-89

132805

601.2045

Purchased No

110 Each 9.0000 1 1

601 2045

RTV (LOCTITE 598)

DAS
38
9-89

**

133275

SD

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK096

9

m131142

1

m131311

8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐											

REFERENCE ONLY

UNINCORPORATED ECN(S)

01728, 04845, 04881

NOTES:

 AFTER INSTALLATION, APPLY
F/N 54 A/R TO FILL GAPS
AND FILLET EDGES.

IF REQD, USE F/N 32 TO
CONNECT CO-AXIAL CABLE.

3 VENDOR : ONLINECOMPONENTS.COM

4 AT CUSTOMERS OPTION,
INSTALL F/N 56 BY MATCH
DRILLING ONTO F/N 1 OR F/N 2.

5 APPLY F/N 55 TO FAYING SURFACES.

6 VENDOR : MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER

DETAIL C

647.3701 SHOWN

	REF	REF	REF	REF	S6	647.5701	GPS MOUNT KIT			
A/R	A/R	A/R	A/R	A/R	55	601.2045	RTV	MS2198-578		
A/R	A/R	A/R	A/R	A/R	54	601.1012	SEALANT	MS2198-578		
1	1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL	NIL-RUBS		
4	4	4	4	4	52	601.2957	NUTPLATE	MS2107113		
4	4	4	4	4	51	600.0795	NUTPLATE	MS2107113		
6	6	6	6	6	50	601.3066	NUTPLATE	MS2104708		
6	6	6	6	6	49	601.3065	NUTPLATE	MS2104708		
18	18	18	18	18	48	601.2973	LOCKNUT	MS2104506		
79	79	79	79	79	47	601.2943	LOCKNUT	MS2104503		
4	4	4	4	4	46	601.2364	CHERRY RIVET	CQ3213-4-6		
28	28	42	42	42	45	601.1183	CHERRY RIVET	CQ3213-4-5		
16	16	19	19	19	44	601.1915	CHERRY RIVET	CQ3213-4-4		
24	24	32	32	32	43	601.0790	CHERRY RIVET	CQ3213-4-3		
31	31	13	13	13	42	601.1039	CHERRY RIVET	CQ3213-4-2		
3704	3703	3702	3701	3701	PIND	PART #	DESCRIPTION	MATL		SPRO.

16	16	16	16	4	601.2207	NUT PLATE RIVET	MS26555-103	
12	12	12	12	40	601.2491	NUT PLATE RIVET	MS26555-104	
7	7	4	4	39	601.1046	CHERRY RIVET	CRQ212-4-4	
17	17	17	17	38	601.1065	CHERRY RIVET	CRQ212-4-3	
5	5	6	6	37	601.1604	CHERRY RIVET	CRQ212-4-2	
6	6	6	6	36	601.3082	CHERRY RIVET	CRQ212-4-1	
2	2	2	2	35	601.1874	BOLT	AN3C-10A	
8	8	8	8	34	601.2856	BOLT	AN3C-1A	
3	3	3	3	33	601.2823	BOLT	P-10-4A	
1	1	1	1	32	601.3073	CONNECTOR	MS26440	
8	8	8	8	31	601.2419	SCREW	MS26554-103	
1	1	1	1	30	601.3070	SCREW	MS26554-104	
2	2	2	2	29	601.2893	SCREW	MS27039-0811	
14	14	14	14	28	601.3069	SCREW	MS27039-1-09	
16	16	16	16	27	601.2263	SCREW	MS27039-0806	
42	42	42	42	26	601.1365	SCREW	MS27039-1-10	
12	12	12	12	25	601.3198	SCREW	MS27039-1-07	
157	157	157	157	24	601.1607	WASHER	MS211490N32P	
34	34	34	34	23	601.2764	WASHER	MS211490N32P	
1	1	1	1	22	647.4313	RH UPPER STRUT		
1	1	1	1	21	647.4312	LH UPPER STRUT		
1	1	1	1	20	647.4310	LH LOWER STRUT		
1	1	1	1	19	647.4311	RH LOWER STRUT		
1	1	1	1	18	647.4212	PLATE		
1	1	1	1	17	647.4211	BRACKET RH		
1	1	1	1	16	647.4210	BRACKET LH		
1	1	1	1	15	647.4116	SHIM		
2	2	2	2	14	647.4115	SHIM		
12	2	2	2	13	647.4114	SHIM		
1	1	1	1	12	647.4113	CLIP		
1	1	1	1	11	647.4112	CLIP		
1	1	1	1	10	647.4111	DOUBLER		
1	1	1	1	9	647.4110	DOUBLER		
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH		
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH		
1	1	1	1	6	647.3915	DEFLECTOR		
1	1	1	1	5	647.4410	PAIL		
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH		
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW		
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY		
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY		
					647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH		
					647.3703	204, 205, 212 CABLE CUTTERS KIT LOW		
					647.3702	412 CABLE CUTTERS KIT HIGH		
					647.3701	412 CABLE CUTTERS KIT LOW		
3704	3703	3702	3701	PART #	DESCRIPTION		MATL	SPEC.

[illegible]

REFERENCE ONLY



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04881

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY J. BECKER

DATE: 02/26/15

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

[Signature]

MFG

[Signature]

QC

[Signature]

EFF.

NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: DELETED F/N 57, REVISED F/N 6.

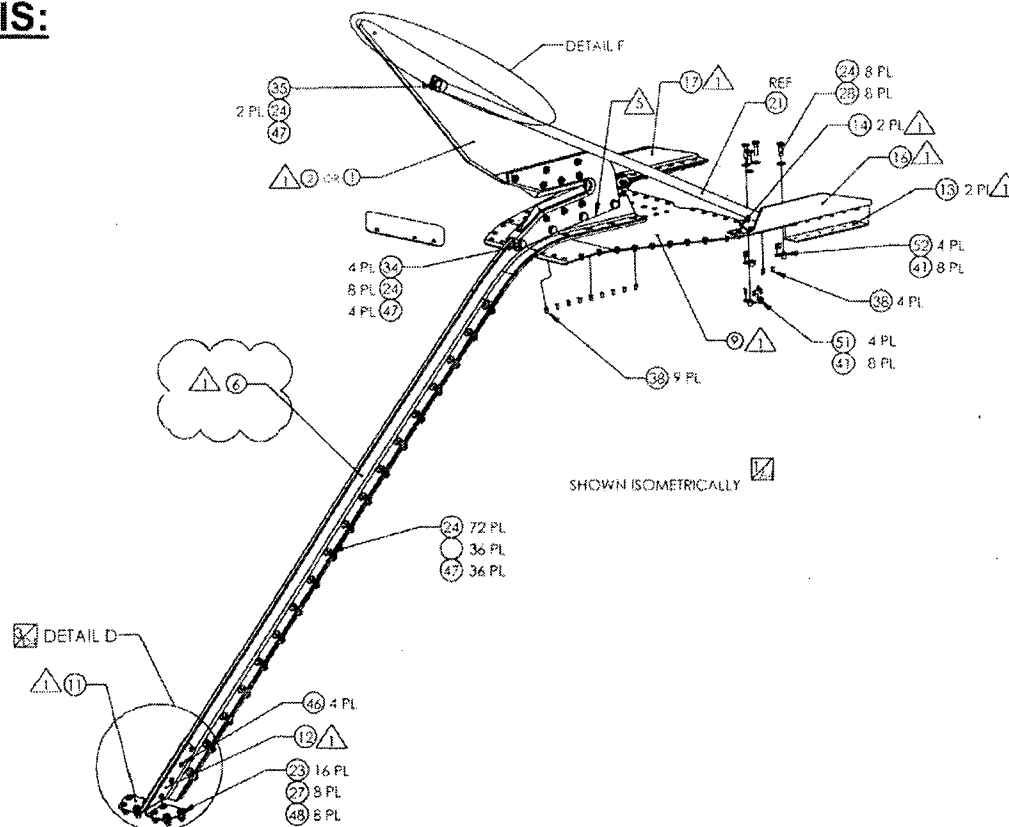
ECR:

N/A

ACTION ITEM:

1.

SHEET 1, ZONE C5 IS:



57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF		
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY		
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY						

DOCUMENTS EFFECTED:	☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM	CHANGE CATEGORY	DER REVIEW REQUIRED
		☐ MAJOR ☒ MINOR	☐ YES ☒ NO